

and pre-adjusted with a view to the installation of the door;

the door comprising a second assembly (10, 49) including the upper guide rails (10).

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2. A door according to claim 1, characterised in that the mass of each thin, light panel of the leaf is of the order of 9 to 10 kg/m<sup>2</sup>, more particularly about 9.5 kg/m<sup>2</sup>.

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3. A door according to claim 1 or 2, characterised in that the total thickness of each thin, light panel of the leaf is less than 3 cm.

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4. A door according to any of claims 1 to 3, characterised in that the second assembly comprises a crosspiece intended to connect the upper guide rails when the door is mounted in position.

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5. A door according to any of claims 1 to 4 characterised in that the second assembly (10, 49) is placed flat against the leaf of the first assembly, the two assemblies together forming a package.

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6. A door according to any of claims 1 to 5 characterised in that the pre-adjustment of the first assembly relates to the length, the positioning and the tension of the cables and of the spring(s) (13c).

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7. A packaging (50) for a sectional door opening against the ceiling and with vertical travel as described in claims 1 to 6, characterised in that it includes a support (51) forming a pallet and a rack (53) capable of housing a number of doors placed side by side.

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against the  
middle (7), of the sliding door, the swivelling parts (5 and 5') of  
the leaves  
open outwards, at the same time the non-swivelling parts (6 and 6')  
of the  
leaves go back.

Such a packaging can house up to nine doors each in the form of the package previously described. These doors are placed symmetrically two by two in such a way that the first two large faces 18 or the second two large faces 19 face each other.

When the doors are so arranged, they can be fixed removably by their side rails 9 to the flanks 54 by means of screws.

As to the flat iron bars 55, they are fixed in the same way at the other end of the flanks 54.

10 The support 51 is placed at the bottom, forming a pallet. The flat iron bars are placed at the top.

The overall dimensions of such a packaging comprising nine doors and fitting within a parallelepiped is for example 1.15 m x 3.20 m by 2.60 m in height, or less.

15 Once manufactured the doors are packaged as just described. This packaging can easily be transported given the limited weight of the panels 7. The packaging 50 makes it possible to store the doors awaiting installation in a structure.

20 For this installation, a door is taken from the packaging 50, carried to the site of the structure, the first assembly 6, 7, 9, 11, 13 and the second assembly 10, 49 are positioned and fixed.

Since the door has been pre-mounted during manufacture and pre-adjusted, the installation can be quick.

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ABSTRACT:

CHG DATE=19990617 STATUS=O>1. Automatic sliding door with two leaves, especially for emergency exits, whose two leaves (3, 4) each consist of one swivelling part (5, 5') linked to a part which is movable but not swivelling (6, 6'), and is snap fastened to this in such a way that, when pressure is exercised against the middle (7) of the sliding door from inside, the swivelling parts of the leaves (5, 5') open outwards, characterized by the fact that the two leaves (3 and 4) of the sliding door are divided along their longitudinal centre line and when pressure is exercised <sup>from</sup> inside

## CLAIMS

1. A sectional door (2) opening against the ceiling and with vertical travel such as a typical garage door, pre-assembled with a view to its installation, capable of being thus stored, delivered and supplied on the installation site, comprising a first assembly (6, 7, 9, 11, 13) including:
- side guide rails (9) positioned vertically when the door is mounted in place
  - a leaf (6) comprising a series of panels (7) and supporting rollers (11) cooperating with the side guide rails (9), each panel capable of being mounted on at least one other analogous panel (7) so that they swivel with respect to each other around an axis parallel to a longitudinal direction (D) normally horizontal when the door is mounted in place, each panel, thin and light, comprising a first and a second facing (16, 17) made from thin sheets of metal or similar, the space closed at the periphery by the two facings being at least partly filled with a synthetic material expanded during manufacture
  - a shaft (13a) positioned longitudinally towards one extremity of the side guide rails (9)
  - one or two cable reel drums (13b) key mounted on the extreme parts of the shaft (13a) towards the outside of the leaf and between the leaf and the side rails (9)
  - one or two cables connected on the one hand to the leaf (6) of the lower end panel, on the other hand wound on to the cable reel drum(s) (13b), these cables being thus not subject to unauthorised access
  - one or more pre-stretched elastic return elements mounted on the shaft, such as a spiral spring
  - manual or motorised means for manoeuvring the leaf; the said first assembly (6, 7, 9, 11, 13) being pre-assembled

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